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Department of  
Agriculture

Forest  
Service

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Date: January 24, 2002

Subject: Mount St. Helens Volcanic Activity Response Plan

FEB 03 2003

To: Participating Cooperators

I have taken the liberty of reviewing the 1992 Mt. St. Helens Response Plan, attempting to clarify roles and responsibilities and creating a more readable format. I do not believe I have changed the intent or the purpose of the plan, but I am requesting your review of this update to insure that I have not compromised the plan and that all cooperators understand expectations. If you have changes or additions, return them to me and I will incorporate into the update. Please acknowledge your participation and support of the plan by signing and dating the signature page and return to me by April 15, 2003.

Additionally, I would like to verify the names of contacts and verification of phone numbers. Page 28 is an update form if your agency has pertinent changes.

I would like to schedule a simulation exercise sometime this spring and would be willing to host a short meeting to review the plan, discuss a possible simulation and introduce the current cooperators. Let me know if you are interested and dates that would work for you.

If you have questions, please contact me at (360) 891-5146.

Sincerely,

*Mike Matarrese*

MIKE MATARRESE  
Fire and Aviation Staff Officer/  
Volcano Emergency Coordinator

**MOUNT ST. HELENS**  
**VOLCANIC ACTIVITY**  
**RESPONSE PLAN**

***UPDATE***

12/02/2002

**2003**

# MOUNT ST. HELENS VOLCANO RESPONSE PLAN

Prepared by: \_\_\_\_\_  
Emergency Coordination Planner  
U.S. Forest Service  
Date \_\_\_\_\_

Reviewed and  
Accepted by: \_\_\_\_\_  
Volcano Emergency Coordinator  
U.S. Forest Service  
Date \_\_\_\_\_

Approved by: \_\_\_\_\_  
Forest Supervisor  
Gifford Pinchot National Forest  
Date \_\_\_\_\_

## Participating Cooperators to Mt. St. Helens Volcano Response Plan

U.S.G.S. – Cascade Volcano Center

Date

WA-Emergency Management Division

Date

Federal Emergency Management Administration

Date

Cowlitz County Department of Emergency Services

Date

Lewis County Division of Emergency Services

Date

Lewis County Sheriff

Date

Clark County Emergency Management Division

Date

Skamania County Department of Emergency Management

Date

U.S. Army Corps of Engineers

Date

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Pacific Power

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Date

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Portland General Electric

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Date

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# **MOUNT ST. HELENS VOLCANO RESPONSE PLAN**

## ***I. INTRODUCTION***

This revision of the Mount St. Helens Contingency Plan reflects an ongoing commitment to the management objectives and philosophies implemented during the past fifteen years. The intention throughout the development and updating of this plan has been to keep it as brief as possible. The focus of this document is to define responsibilities of the U.S.D.A Forest Service in carrying out mandated policies.

Effective management of volcano emergencies requires an effective team of cooperating agencies and organizations able to provide a coordinated response. This coordination with local, state and other federal agencies will be enhanced at all opportunities. The Forest Service has taken the lead in the updating of this plan. Continued coordination and maintenance of interagency working relationships needs to be supported by all agencies.

## ***II. PURPOSE***

The purpose of this document is to provide: a summary of the responsibilities of the USDA Forest Service and the role of the Emergency Coordination Center (ECC), define the interrelationships of this organization and to serve as a contingency plan.

This document will describe the current working and communication relationships. This narrative establishes direction for organization development to manage:

1. A status quo or monitoring situation on a daily basis,
2. A small isolated volcanic event,
3. A volcanic event or flood or other emergency which necessitates a high degree of logistical coordination in the movement of the general populace in coordination with other agencies,
4. A multiple incident situation requiring an incident commander and/or Unified Command or Unified Area Command,
5. Define criteria, which if met, would lead to the establishment of a Multiagency Coordination Group (MAC).

This plan does not imply direction or control of those agencies outside of USFS jurisdiction.



### ***III. LEGAL AUTHORITY***

Numerous laws, statues, and orders to provide for the public welfare mandate all federal agencies. The legal authorities for the U.S. Forest Service are discussed below.

- The authority for Federal action in major disasters and emergencies contained in the Disaster Relief Act of 1974 (P.L.93-288) and Executive Order 11725 of June 27,1973.
- Assistance in fire emergencies is authorized by the Act of May 27, 1955 (42 U.S.C. 1856a).
- At the request of another Federal agency, the Forest Service has authority to assist that agency with any resources available. Funding is handled with an advance of funds to the consolidated working fund or by reimbursement (under section 601 of the Economy Act of June 30,1932, 31 U.S.C. 686.) When assistance requests are anticipated, it is desirable to have an agreement with the responsible Federal agency as to the action requested of the Forest Service. Arrangements should be worked out at the Regional, Station, or Area level and confirmed in writing. (See FSM 1595 and 1596 for special authorities, civil defense planning, and rural fire defense.)

## IV. ORGANIZATION

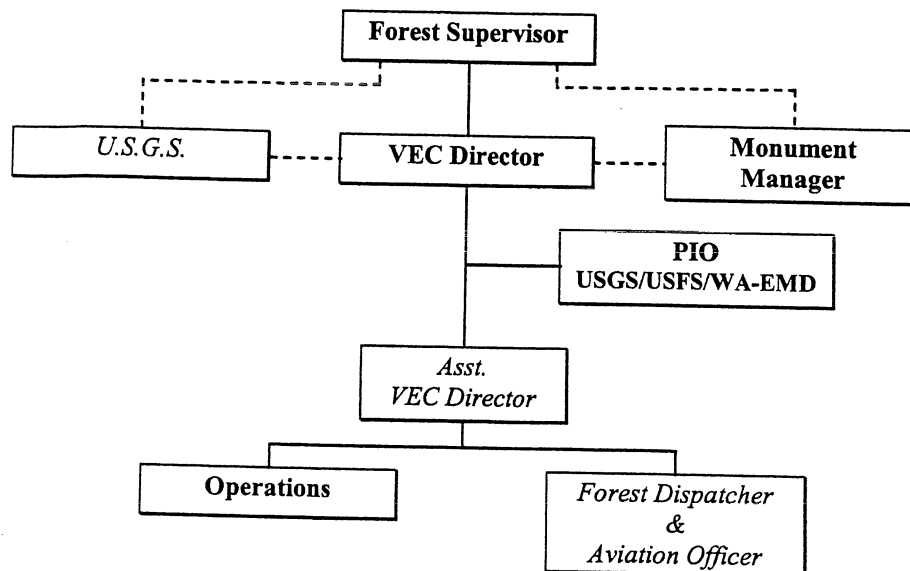
### A. EMERGENCY COORDINATION CENTER (ECC)

#### 1. Administration

While the basic organization has evolved from 1980 to the present, the overall function has had only minor changes to date. The operation of the Emergency Coordination Center will be built around the existing Gifford Pinchot Fire Management organization. The following chart is the basic organization through Volcano Advisory. As emergency conditions change, the level of staffing will change.

Incident Command System (ICS) will be used to develop the organization, including interagency coordination and communication, necessary to respond to current and anticipated geological activity.

### Organization Chart Emergency Coordination Center (Basic Organization)



## **2. Operations**

The ECC is located at the Gifford Pinchot National Forest headquarters at 10600 N.E. 51<sup>st</sup> Circle, in Vancouver, Washington 98682. The Forest Wildland Fire Dispatch Office and adjoining conference rooms will be used as a coordination and command center.

The present location has ample room for all personnel involved and a communication network is in place. In the event more space is needed for support organizations, i.e., Sheriffs, Corps of Engineers, Pacific Power, Portland General Electric, etc., the current location is suited to accommodate trailer offices on-site.

If it becomes necessary, it is possible to relocate the center for management or emergency reasons. Cowlitz and Clark Counties have Emergency Operations Centers (E.O.C) facilities for our use in an emergency situation. Also, the Mount St. Helens National Volcanic Monument has a warehouse at its Amboy headquarters with 24 available telephone lines. The Forest Service will have only one ECC or may be co-located with an EOC.

In the event radio and telephone communications break down, the option to utilize Federal Emergency Management Agency's (FEMA) resources exist. FEMA has a highly sophisticated communications van stationed in Seattle that can provide an unlimited array of systems for our use.

The ECC (when not activated) operates during normal work hours, Monday through Friday, 0745am-1630pm, but staffing will be augmented according to staged alert levels. The communication system that is in place on a daily routine basis includes:

*a. ECC Equipment and Communications:*

Radio network for Forest & Support Agencies  
(programmable radios), composed of 14 channels.

Telephone—30 Commercial lines

Computer Data Lines—14 available

FAX

Pagers and Cellular phones

*b. ECC Staff & Phone Numbers ( Office)*

ECC Dispatch (0800-1630, M-F)	(360) 891-5140
24-Hour Answering Service	(360) 896-3473
VEC Director—Mike Matarrese	(360) 891-5146
Asst. Director—Ron Freeman	(360) 891-5156
Forest Dispatcher (Operations) & Aviation Officer—Bob Ensley	(360) 891-5140
FAX (ECC)	(360) 891-5145
Forest Supervisor—Claire Lavendel	(360) 891-5100
Deputy Supervisor—Lynn Burditt	(360) 891-5101
Forest Special Agent—Chris Lynch	(360) 891-5135

## ***B. ROLES AND RESPONSIBILITIES***

The role of the ECC organization is to expedite a coordinated emergency response to hazardous volcanic conditions.

The primary objectives of this organization are:

1. Notify other Federal Agencies and Cooperators of situation. (See Appendix I)
2. Direct a coordinated response to minimize the potential loss to human life and property.
3. Be decisive in directing personnel effort and commitment of resources.
4. Facilitate accurate and timely exchange of volcanic information, ideas and concerns.
5. Provide a continuum of data flow concerning hazard assessment, evaluation, and decisions.
6. Utilize more effectively human and physical resources eliminating duplication of effort.
7. Determine appropriate ordering procedures for acquiring resources.
8. Determine need for Public Affairs staffing.

## ***V. AGENCY'S POSITION AND ROLES***

The following agencies and positions comprise the foundation of the ECC and are in 24-hour contact by telephone or pager at the "Volcanic Advisory" and "Volcano Alert" levels. Decisions to issues information statements, alert-level statements, or update statements are made by the U.S.G.S. in consultation with the Forest Service and WA-EMD.

### ***A. U.S.D.A. FOREST SERVICE***

The U.S. Forest Service is the primary land manager for Mount St. Helens and the immediate surrounding area. As such the Forest Service will likely implement an Incident Command organization prior to the need for other agencies to do so.

The Forest Service will establish and maintain an effective 24-hour emergency notification operation staffed by qualified individuals.

Provide assistance to other agencies and organizations in developing their contingency actions.

Expand the Emergency Coordination Center as needed for the situation.

Make the appropriate contacts as outlined in Appendix I, page 30.

Provide for public and response team safety and communications.

#### ***1. VEC/ECC DIRECTOR***

The purpose of the Director is to provide leadership and direction to the overall emergency effort.

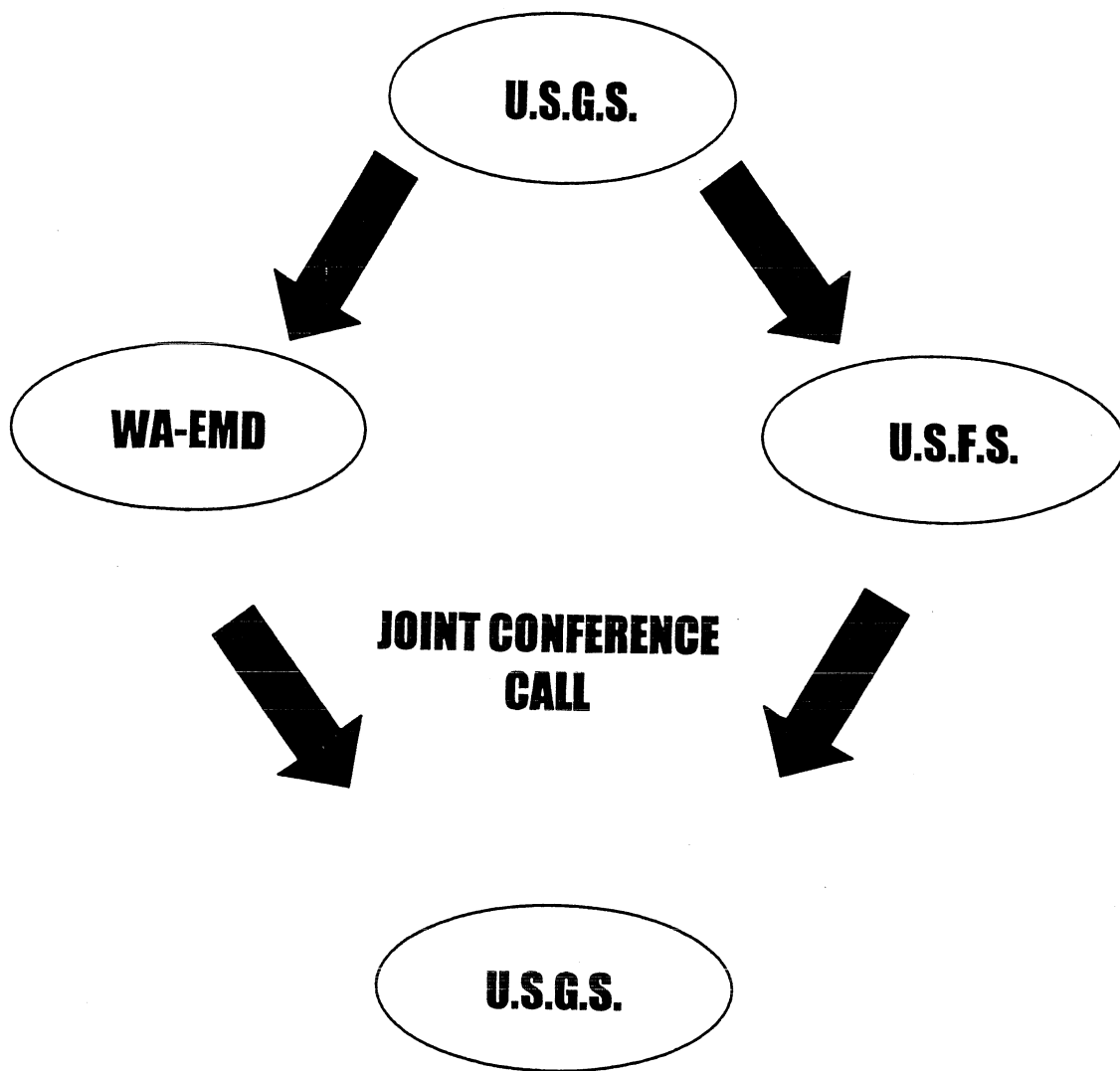
The VEC/ECC Director is also the Forest Supervisor's Representative.

The VEC/ECC Director will:

- Provide leadership and direction to the overall emergency effort for the Forest Service.
- Brief the Forest Supervisor of significant issues, events or problems the Director cannot resolve.
- Brief other Agency Liaisons as they are identified.
- Ensure quality coordination between the ECC, the Response Team, other agencies and the Public Affairs organization.
- Establishes and maintains key contacts with other agencies and landowners.
- Establishes priorities and directs the logistical and political phase of operations.

- Ensures statutory authorities are complied with.
- Establishes goals and objectives and implements them.
- Ensures 24-hour communications is appropriate for the incident.
- Staffs the ECC adequately for the alert level and/or imminent alert level.
- Resolves managerial and organizational problems/issues and concerns as they develop.
- Establishes procedures for ordering resources.
- Makes recommendations to the Forest Supervisor for changes in the Forest Service EEC role, location or other organizational changes necessary to meet the support and overall emergency response effort in cooperation with other agencies and landowners.

## INITIAL CALL



As appropriate, the USGS will issue, in coordination with the U.S. Forest Service and WA-EMD, public statements on anticipated eruptive activity and associated potential hazards. A USGS information scientist or geologist will be available for consultation with the ECC at all times during periods of elevated volcanic activity.



## **2. PUBLIC INFORMATION OFFICER**

When conditions warrant or at "Volcanic Advisory" or "Volcanic Alert" status, a Public Information Center will be established at a location that is compatible with operations in progress. (See page 20 for discussion of alert levels.) The primary purpose of this information center will be to provide information to all news media and other multi-agency approved media, such as websites.

It will be administered by a qualified Public Information Officer and will be staffed as required. The U.S. Forest Service PIO will coordinate with the USGS information scientist or geologist, and WA-EMD Public Information liaison.

Daily news briefings, as required, will be provided for the media and phone numbers will be available to them, which provide taped current interviews on the status of the emergency and other information.

## **3. INTELLIGENCE OFFICER**

The person responsible for the collection and organization of incident status and situation information and evaluation, analysis, and display of information.

An equivalent position for WA-EMD, and the Public Information branch should be co-located so that operational decisions and public information may be well coordinated.

## **4. AGENCY COORDINATOR (FS)**

The Agency Coordinator position is activated at Alert Level Two as part of the Incident Management Team. The primary purpose of this position is to work with cooperating agencies, governments, and private parties or groups that are directly affected by the volcano. The Agency Coordinator is to keep the liaisons advised of any current or imminent changes in the volcano's activity and what actions the Forest Service anticipates. The Agency Coordinator works with these groups on such things as area closures permit systems, and any other items that should be coordinated.

The Agency Coordinator monitors incident operations to identify current or potential inter-organizational problems.

## **5. LAW ENFORCEMENT-SPECIAL AGENT**

Acts as a liaison between Forest Service Law Enforcement and County Sheriffs. Provides assistance to counties in coordination of evacuations, search and rescue, and traffic management as needed and requested.

## **6. AVIATION OFFICER/ AIR OPERATION BRANCH DIRECTOR (AOBD)**

The Aviation Officer is a permanent position in the ECC organization. The Forest Aviation Officer fills this position during the Information Statement, and Notice Volcanic Unrest levels. When alert levels increase to Volcanic Advisory or Volcano Alert, this position may become an Air Operation Branch Director and may work either for forest or the Incident Commander if an Incident Management Team is in place.

The Aviation Officer/AOBD coordinates all tactical and logistical aircraft activities and provides air support as necessary at a volcano-related incident.

The Aviation Officer / AOBD also works closely with the U.S Geological Survey air operations officer to coordinate air activities during a volcano-related incident. The U.S. Geological Survey can provide geologists to serve as aerial observers on reconnaissance missions.

Under the Incident Command System, the AOBD has primary responsibility for preparing the air operations portion of an Incident Action Plan, for implementing its strategic aspects, and for providing logistical support to aircraft operations on an incident.

The Aviation Officer/ AOBD coordinates with the FAA on airspace restrictions and on entry authorization. S/He supervises all air operations activities associated with an incident and establishes procedures for emergency reassignment of aircraft. The Aviation Officer/AOBD also schedules approved flights of non-incident aircraft in the restricted airspace area.

## ***B. U.S. GEOLOGICAL SURVEY - CASCADES VOLCANO OBSERVATORY (USGS-CVO)***

The primary role of the USGS-CVO is monitoring the state of the volcano, assessing eruptive and hydrologic hazards stemming from volcanic activity, and advising the ECC accordingly. The USGS will provide notification to the U.S.F.S. and WA-EMD of the state of the volcano and anticipated volcanic hazards. As appropriate, the USGS-CVO, in coordination with the ECC and WA-EMD, will issue public statements on anticipated eruptive activity and potential hazards. WA-EMD will initiate a briefing conference call between the above-mentioned agencies.

Each responsible agency will then disseminate the given information by priorities listed in each agency's emergency action plan document (i.e.- WA-EMD Annex W-8 Mt. St. Helens Plan).

In addition, volcanic information will also be available through the USGS-CVO web page. (<http://vulcan.wr.usgs.gov>).

### ***C. WASHINGTON STATE EMERGENCY MANAGEMENT DIVISION***

The Washington State Military Department- Washington State Emergency Management Division is authorized to act on the Governor's behalf to coordinate response activities, organizations, and resources within the state. The department coordinates with local, state, and federal jurisdictions to ensure emergency plans compatibility and coordination of operations and recovery activities.

Upon receipt of information statements, alert-level notifications or updates from the USGS, Washington State Emergency Management Division disseminates this information to local, state and general public by means of the National Warning System (NAWAS) telephone, local government system radio, and law enforcement networks.

At Volcano Alert status, a position at the ECC may be staffed by a Washington State Emergency Management Division representative from Olympia to disseminate information from the ECC to the State Emergency Operations Center.

If commercial telephone service fails, Washington State Emergency Management Division may arrange for use of government and /or amateur radio organizations.

### ***D. CLARK, COWLITZ, LEWIS, AND SKAMANIA COUNTIES***

Each County has the prime responsibility for dealing with local events in their respective county. Evacuation procedures will be developed and become part of this plan as necessary.

An essential linkage between the ECC to the most heavily impacted county offices is provided by an Agency liaison. The liaison coordinator reports directly for the county keeping the VEC informed of the Mt. St. Helens situation as it affects their local jurisdiction.

The Forest Service may elect to establish an Agency liaison to sit with a county (counties) EOCs.

When a volcanic eruption occurs, additional liaisons may be dispatched to the ECC so that each county is personally represented.

The principal activities conducted by the Agency liaison are:

1. Obtain a briefing from VEC
2. Provide a point of contact for assisting/cooperating agencies.
3. Make recommendations to the ECC Director as it relates to coordination between USFS and local jurisdictions.
4. Monitor incident operation to identify current or potential inter-organizational problems.
5. Participate in planning meetings providing current resource status, limitations and capabilities of agency resources.
6. Report directly to County Emergency Managers.

#### ***E. U.S. ARMY CORPS OF ENGINEERS***

The Corps is concerned with the sediment retention structure on the North Fork of the Toutle River and maintaining flood protection along the Cowlitz River.

The Corps of Engineers may provide emergency flood assistance under the authorities of PL 84-99 and AR 500-60. This assistance may be provided to increase levels of preparedness, emergency operations (flood fighting), levee rehabilitation and advanced measures.

The Corps maintains a representative at the ECC during eruptive phases (Volcanic Alert).

#### ***F. NATIONAL WEATHER SERVICE***

The National Weather Service Forecast Office in Portland provides the following information to the Emergency Coordination Center and the U.S. Geological Survey:

1. Flood forecasting in consultation with USGS for areas of potential volcanic hazards
2. (1) Flood forecasts, (2) flood warnings, and flood watch over NAWAS, NOAA weather radio (when available), and NOAA weather wire service.
3. Volcanic plume forecasts.
4. Tests NAWAS for disseminating weather or flood-related volcanic hazard information.
5. Radar plume information to the VEC/ECC Director and U.S.G.S., i.e. Plume height, tracking location, as requested (Portland NWS office only).

## ***VI. EVENT NOTIFICATION***

Event notification may occur under two distinctly different circumstances:

- (1) In response to unexpected short-lived events.
- (2) In response to developing volcanic unrest that may culminate in eruptive activity with attendant volcanic and Hydrologic hazards. The former is handled through information statements, the latter through staged Alert levels.

### ***A. INFORMATION STATEMENT***

Events such as steam bursts (with or without minor ash fall), small avalanches, rock falls, minor mudflows, thunderstorms, and prescribed burns often attract media and public-interest inquiry. These events do not fit into any other information category. This type of event, if volcano-related, is short-lived, usually concluding within minutes. Since this type of event almost always occurs without specifically recognized precursors, there is no opportunity to provide warning or evacuation. Thus, persons in proximity to such an event are at some personal risk and will need to make their own safety decisions.

Information about a discrete natural event may come from any source. Owing to frequent public and media inquiries that result from such an event, USGS-CVO will attempt to verify the nature and extent of the event, issuing commentary as appropriate in "information statements".

"Information statements" may also be issued to provide commentary about notable events occurring within any staged alert level during volcanic unrest.

### ***B. STAGED ALERT LEVELS***

A system of staged alert levels ("notice of volcanic unrest", "volcano advisory", and "volcano alert") indicates the level of volcanic unrest and degree of imminence of hazardous volcanic activity. Alert-level notifications will be accompanied by brief explanatory text to clarify hazard implications as fully as possible. Updates may be issued to supplement any alert-level statement.

Alert-level assignments depend upon observations and interpretations of changing phenomena. Some volcanic events may not be preceded by obvious changes or the observed changes may not be well understood; thus, surprises are possible, and uncertainty about timing and nature of anticipated events is likely. Alert-levels are not always followed sequentially.

### **1. NOTICE OF VOLCANIC UNREST (Alert Level One)**

This alert level is declared when USGS-CVO can first confirm changes that could lead to hazardous volcanic activity. This type of statement expresses concern about volcanic unrest or hydrologic conditions but does not imply imminent hazard. Among the possible outcomes are: (1) symptomatic activity could wane, leading to cancellation of the "notice of volcanic unrest", (2) conditions could evolve so as to indicate progress toward hazardous volcanic activity, leading to issuance of a "volcano advisory" or "volcano alert".

### **2. VOLCANO ADVISORY (Alert Level Two)**

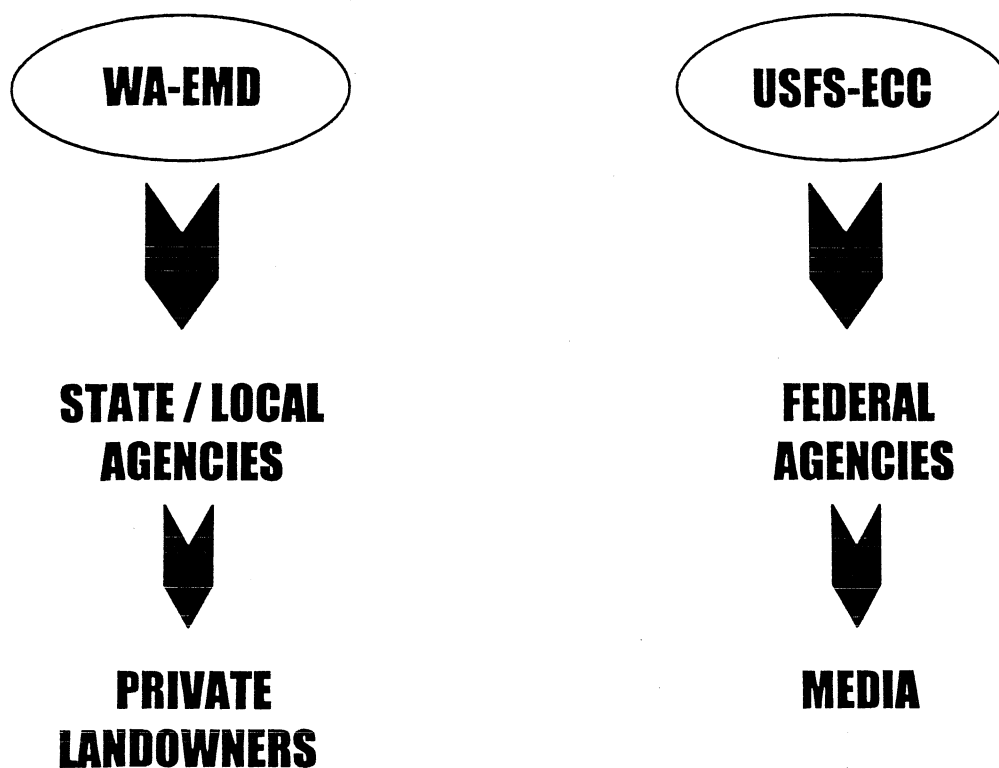
This alert level is declared when monitoring and evaluation by USGS-CVO indicate that processes are underway that could culminate in hazardous volcanic activity but the evidence does not indicate that a life-or property-threatening event is imminent. This alert level is used to emphasize heightened potential hazard. Among the possible outcomes are: precursory activity could wane, leading to cancellation of the "volcano advisory;" (2) conditions could evolve so as to indicate that a life- or property-threatening volcanic or hydrologic event is imminent or underway, leading to issuance of a "volcano alert". "Volcano advisory" statements, supplemented as appropriate by "updated volcano advisory" statements will clarify as fully as possible USGS understanding of the hazard implications.

### **3. VOLCANO ALERT (Alert Level Three)**

This alert level is declared by USGS-CVO when monitoring and evaluation indicate that precursory events have escalated to the point where a volcanic event with attendant volcanic or hydrologic event threatening to life or property appears imminent or is underway. Depending upon further developments, a "volcano alert" will be maintained, updated, downgraded to a "volcano advisory," or canceled. The "volcano alert" statement will indicate, in as much detail as possible, the time window, place, and expected impact of an anticipated hazardous event. "Updated volcano alert statements" will amplify hazard information as dictated by evolving conditions.

**NOTE:** Alert-levels are not always followed sequentially. Updates may be issued to supplement any of these alert level statements.

## **ALERT LEVEL CALL-DOWN RESPONSIBILITIES**



### ***C. ECC RESPONSE TO ALERT LEVELS***

#### **1. Monitoring – Day to Day Operation of ECC**

- a. Duty officer on call 24-hours a day through answering service, pager and/or cellular phone.
- b. ECC staffing and schedules are established.
- c. Advise answering service of notification importance when it comes to volcanic activity.
- d. Keep current a listing of emergency numbers of primary cooperating agencies and designated key contacts.
- e. Establish appropriate teleconferencing time frames and list participants.

**NOTE:** The USGS-CVO maintains summary volcano information on its public website (<http://vulcan.wr.usgs.gov>).

## **2. Information Statement**

(Usually a short-lived, isolated event; maybe nonvolcanic)

- a. After notification by USGS and conference call with USFS and WA-EMD, the ECC response time is 15 to 30 minutes. ECC to document time and statement given to cooperators and follow up with information in a timely manner.
- b. If appropriate, implement MSHNVM Evacuation/Contingency Plan.
- c. ECC will need to initiate telephone calls in the following progression to the listed cooperators so that they can respond to public and media inquiries:
  - Mount St. Helens National Volcanic Monument Manager
  - Forest Service Special Agent
  - FAA (Seattle) (steam/ash event only)
  - Cowlitz Valley and Mt. Adams Ranger Districts
  - Portland Water Bureau (steam/ash event only)
  - National Weather Service (Portland) (steam/ash event only)
  - Media (Forest PAO lead in coord. With USGS & WA-EMD)

WA-EMD will activate call-down as designated in Annex-8, Mt.St. Helens Plan.

## **3. Notice of Volcanic Unrest – Alert Level I**

(First confirmation of changes that may lead to an eruption or hydrologic event)

- a. After notification from USGS and conference call with USFS and WA – EMD that it is preparing a notice of volcanic unrest for public release, the ECC will usually have a one to two hour lead time to call:
  - Mount St. Helens National Volcanic Monument Manager
  - Forest Service Special Agent
  - FAA (Seattle) (steam/ash event only)
  - Cowlitz Valley and Mt. Adams Ranger Districts
  - Army Corp of Engineers (Portland) (steam/ash event only)
  - Media (Forest PAO lead in coord. With USGS and WA- EMD)

WA-EMD will activate call-down as designated in Annex-8, Mt. St. Helens Plan.

- b. If appropriate, implement MSHNVM Evacuation/Contingency Plan.
- c. In addition, ECC will take the following action:
  - Identify staffing and establish schedules of staff.
  - Establish 24-hour contact with all ECC staff.



- Provide situation briefings to the Forest Supervisor, Forest Public Information Officer, and Forest Special Agent.
- Provide situation updates by telephone to agencies listed above.
- The decision to prepare for and close the hazard areas, will be made in consultation with the VEC Director and Monument Manager, as dictated by the nature of the eruptive activity and the perceived risks at this point in time.

#### **4. Volcano Advisory – Alert Level II**

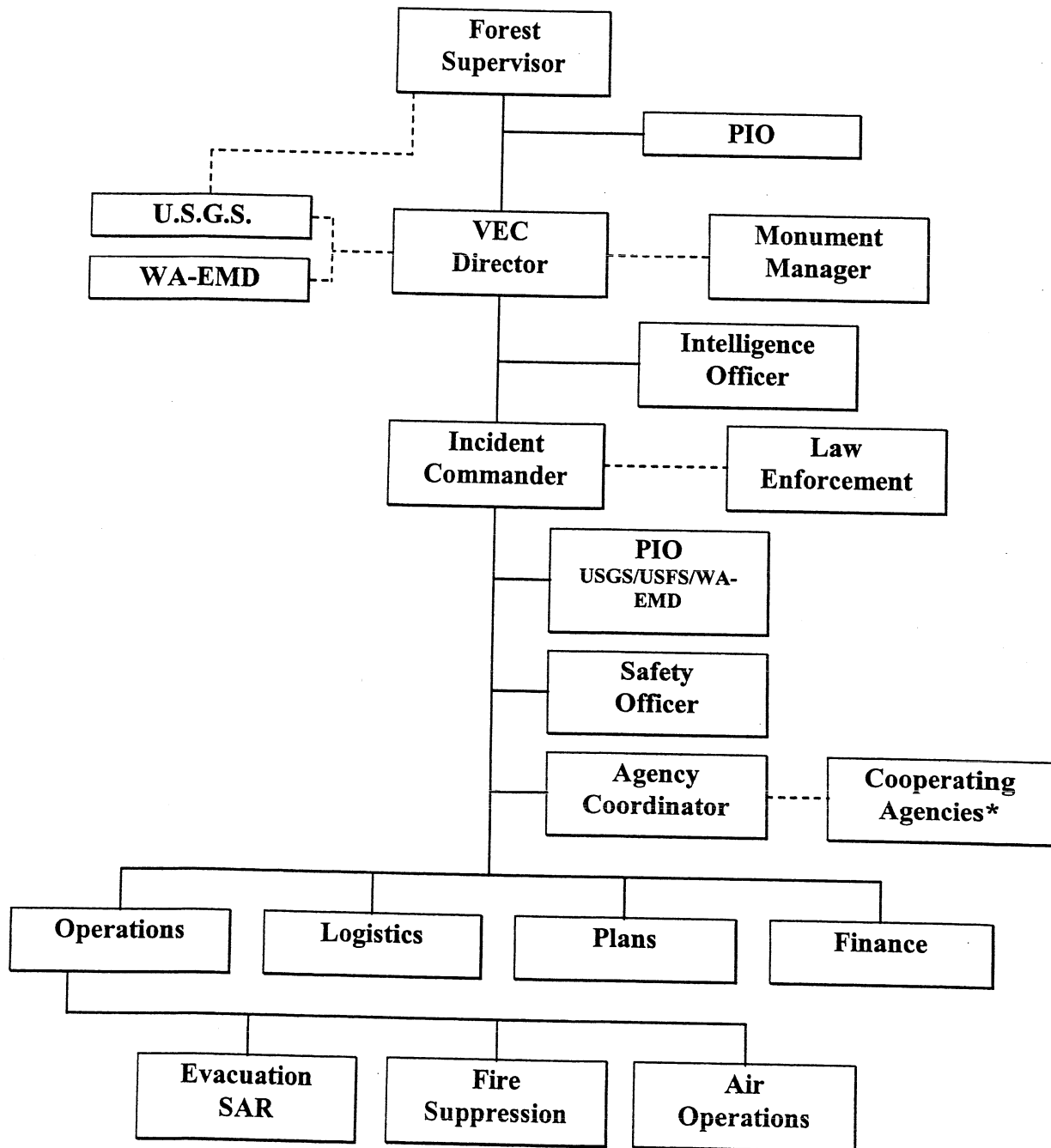
(Hazardous volcanic event likely but not necessarily imminent)

A Volcano Advisory prompts the following actions from the ECC:

- a. As dictated by pre-eruption prediction and by proximity of people to the volcano, consider or effect a closure and evacuation of the hazard areas. Prior to any closure consult and coordinate with WA-EMD.
- b. Evaluate activation of a Type I or II Incident Management Team.
- c. Staff ECC with a minimum of two personnel. All ECC to carry pagers and/or cellular phones.
- d. Notify the following cooperators/agencies;
  - Mt. St. Helens Volcanic Monument Manager
  - Forest Special Agent
  - Notify Forest unit managers and consider message to all employees
  - Notify the following agencies:
    - FAA (Seattle)
    - National Weather Service (Portland)
    - Portland Water Bureau
    - Army Corps of Engineers (Portland)
    - Yakima Indian Nation
    - U.S. Coast Guard (Portland)
    - Northwest Coordination Center (NWC)
    - Media (Forest PAO lead coord. With USGS and WA-EMD)
    - Establish the public Information Center as dictated by media interest.
    - Coordinate with USGS information scientist or geologist and WA-EMD.
    - Continue to provide situation briefings to Forest Supervisor.
    - Request a “transport winds forecast” from the National Weather Service (Portland) at least twice a day until danger of ash emissions has passed. Relay to cooperating agencies.
  - Assess need for Unified Command, Area Command and/or MAC.

WA-EMD will activate call-down as designated in Annex-8, Mt. St. Helens Plan.

# Organization Chart: *Volcano Advisory*



\*Cooperating Agencies: FAA (Seattle), NWS (Portland), Army Corps of Engineers, Yakima Indian Nation, U.S. Coast Guard (Portland), Northwest Coordination Center (NWC), Clark/Cowlitz/Lewis/Skamania Counties.

## **5. Volcano Alert – Alert Level III**

(Event hazardous to life and property is imminent or underway)

a. The following ECC actions are to be implemented:

- Notify the following agencies:
- Mt. St. Helens National Volcanic Monument Manager
- Forest Special Agent
- All other Ranger Districts
- FAA (Seattle)
- National Weather Service (Portland)
- Portland Water Bureau
- Army Corps of Engineers (Portland)
- Yakima Indian Nation
- U.S. Coast Guard (Portland)
- Northwest Coordination Center (NWC)
- Media (Forest PAO lead coord. With USGS & WA-EMD)
- Staff the ECC on a 24-hour basis.

b. Actions to be taken:

i. Close and evacuate the hazard areas as appropriate.

As indicated by monitoring and hazard assessment, consider expanding the closure area. Consult and coordinate with WA-EMD.

ii. Determine need to activate Unified Command, Area Command, Multiagency Coord. (MAC) Group.

Continue to provide situation briefings to the Forest Supervisor.

Request cooperating agencies to send representatives to the ECC.

iii. Alert FAA to anticipated ash hazards to aircraft, general character of small ash emissions, and large tephra-producing events. Consult with the FAA regarding airspace closures.

Request temporary flight restrictions as appropriate (FAR 91.137).

iv. Request radar monitoring from Portland National Weather Service for ash cloud detection.

Maintain request to NWS for the transport winds forecast.

Request a “transport winds forecast” from the National Weather Service (Portland) at least twice a day. Relay to cooperating agencies as appropriate.

- v. Request from USGS computerized graphic representation of ash plume trajectory. USGS will fax map to ECC and WA-EMD.

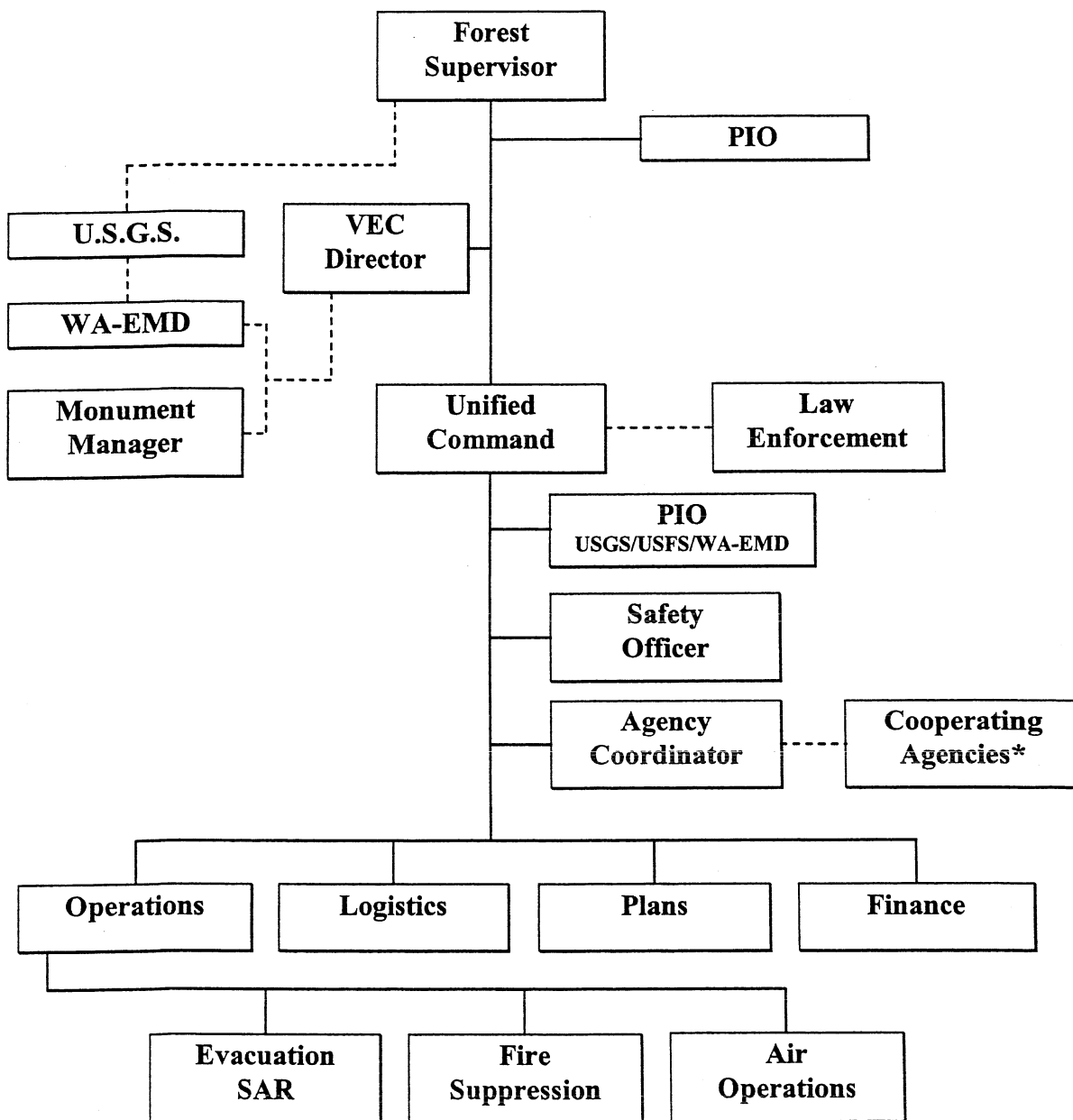
Consider, in conjunction with USGS, aircraft monitoring of the volcano as dictated by eruptive activity and by the reliability of other monitoring activities.

- vi. In the event of communications failure or expected failure begin the process to move FEMA's "EMRV" system into place. Requests will be made through the Northwest Coordinating Center.

WA-EMD will activate call-down as designated in Annex-8, Mt. St. Helens Plan.

# Organization Chart

## *Volcano Alert*



Unified Command: FEMA, USFS, WA-EMD, Clark/Cowlitz/Lewis/Skamania Counties.

\*Cooperating Agencies: USGS, WA-EMD, FAA (Seattle), NWS (Portland), Army Corps of Engineers, Yakima Indian Nation, U.S. Coast Guard (Portland), Northwest Coordination Center (NWC), Clark/Cowlitz/Lewis/Skamania Counties.

# **CALL DOWN NOTIFICATION BY ALERT LEVEL**

**USFS ECC**

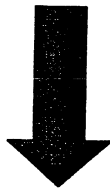
**WA-EMD EOC**



**INFORMATION STATEMENT**

**MSHNVN MGR.  
ALL OTHER UNIT MGRS.  
FAA (Seattle – ash only)  
NWS (PDX – ash only)  
USFS SPECIAL AGENT  
MEDIA (Coord. w/ USGS & WA-EMD)**

**ALL COUNTIES  
YAKIMA DIST. WSP  
OREGON, IDAHO, B.C. (Canada)  
WSP LIAISON  
WEYERHAEUSER**



**ALERT LEVEL 1: NOTICE OF VOLCANIC UNREST**

**MSHNVN MGR.  
ALL OTHER UNIT MGRS.  
ADJACENT FORESTS/NPS  
FAA (Seattle – ash only)  
NWS (PDX – ash only)  
ARMY C.O.E. (PDX – ash only)  
USFS SPECIAL AGENT  
MEDIA (Coord. w/ USGS & WA-EMD)**

**ALL COUNTIES  
YAKIMA DIST. WSP  
OREGON, IDAHO, B.C. (Canada)  
WSP LIAISON  
WEYERHAEUSER**

# **CALLDOWN NOTIFICATION BY ALERT LEVEL**

**USFS ECC**



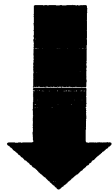
**WA-EMD EOC**



## **ALERT LEVEL II: VOLCANO ADVISORY**

**MSHNVM MGR.  
FOREST SPECIAL AGENT  
ALL OTHER UNIT MGRS.  
FAA (Seattle)  
NWS (PDX)  
PORTLAND WATER BUREAU  
YAKIMA INDIAN NATION  
U.S. COAST GUARD  
NWC  
ARMY C.O.E. (PDX)  
MEDIA (Coord. w/USGS & WA-EMD)**

**ALL COUNTIES  
YAKIMA DIST. WSP  
OREGON, IDAHO, B.C. (Canada)  
WSP LIAISON  
WEYERHAEUSER  
ANNEX 1 & 2 OF MSH PLAN  
EMERGENCY OPS. SUPERVISORS**



## **ALERT LEVEL III: VOLCANO ALERT**

**MSHNVM MGR.  
FOREST SPECIAL AGENT  
ALL OTHER UNIT MGRS.  
FAA (Seattle)  
NWS (PDX)  
PORTLAND WATER BUREAU  
YAKIMA INDIAN NATION  
U.S. COAST GUARD  
NWC  
ARMY C.O.E. (PDX)  
MEDIA (Coord. w/USGS & WA-EMD)**

**ALL COUNTIES  
YAKIMA DIST. WSP  
OREGON, IDAHO, B.C. (Canada)  
WSP LIAISON  
WEYERHAEUSER  
ANNEX 1 & 2 OF MSH PLAN  
EMERGENCY OPS. SUPERVISORS**

## ***VII. INCIDENT COMMAND SYSTEM***

### ***A. INCIDENT COMMANDER***

The occurrence of a major volcano-related incident demands an automatic, immediate and coordinated response. The Incident Command System, therefore, will be used during an eruption or for a volcano-related incident. At Volcano Alert, if it has not previously been done, the ECC Director will activate a Type I or II Incident Management Team. The Incident Commander will direct all tactical operations and make decisions on emergency needs. He or she has all the responsibility for the management of assigned resources to effectively accomplish stated objectives and strategies pertaining to an eruptive incident at Mount St. Helens. (See Delegation of Authority Letter).

The Incident Commander reports directly to the VEC Director who acts for, and has full authority from, the Forest Supervisor.

The Incident Commander must have key positions filled as soon as possible to meet all events expected by the incident and subsequent incidents.

**An organization chart is shown on page 23 indicating positions needed. The basic organization can be enlarged or scaled down depending upon the event that is expected to occur or has occurred after needs are thoroughly analyzed.**

### ***B. UNIFIED COMMAND***

Unified Command is a team effort process, allowing all agencies with responsibility for an incident, either geographical or functional, to establish a common set of incident objectives and strategies that all can subscribe to. This is accomplished without losing or abdicating agency authority, responsibility, or accountability.

For a volcano-related incident, Unified Command may be comprised of FEMA, USFS, WA-EMD, Clark, Cowlitz, Lewis and Skamania Counties.

### ***C. AREA COMMAND***

Area Command is an organization established to:

1. Oversee the management of multiple incidents that are each being handled by an Incident Command System organization; or
2. To oversee the management of a very large incident that has multiple Incident Management Teams assigned to it.



Area Command is used when there is a number of incidents in a geographic area. These incidents may be vying for the same resources.

If the incidents under the authority of the Area Command are multi-jurisdictional, a Unified Area Command should be established. This allows each jurisdiction to have representation in the Area Command.

#### ***D. MAC GROUP***

If it is determined by the Cooperating Agencies that a MAC is necessary, then it may be established. It assumes the responsibility for making key decisions regarding the sharing and use of critical resources. It is necessary to use the emergency resources within the region to maximum efficiency possible. The MAC **does not exercise authority over the Incident Commander (or Unified Command)** who has the responsibility for the management of the on-the-ground incident organization.

Under any scenarios, the Forest Supervisor, or his/her delegate (Agency Administration Representative/VEC) must make the administrative decisions for the Forest Service roles in meeting its obligations such as closures and evacuations for the Gifford Pinchot National Forest.

## ***VIII. REVIEW AND UPDATING***

### ***A. REVIEW PROCEDURE***

The purpose of this section is to establish a procedure for review of the plan. This plan must be kept as current as possible. An annual volcano contingency plan workday is recommended. Major participants would be ECC Staff (USFS), U.S. Geological Survey, and Mount St. Helens National Volcanic Monument Staff. Expansion to include major cooperators is possible and desirable. The workday discussion would include possible scenarios, range of volcanic activity, and clarification of terms.

It will be the joint responsibility of the U.S. Geological Survey and U.S. Forest Service to plan and hold this annual workday.

### ***B. UPDATING PROCEDURE***

Corrections and updating will be accomplished through the use of self-addressed updating form(s) enclosed. Anyone who reads or reviews the document and identifies a correction may fill out the enclosed form and mail it to the ECC Director. Corrected pages will be sent out to cooperating agencies on a quarterly basis, if necessary, to update that organization's plan. To keep track of changes, an updating form will be placed in the Appendix to track the changes.

The ECC, on a quarterly basis, will also check the phone numbers on the call down list and review the agencies notified for possible revision and/or amendments.

### ***C. UPDATING FORM***

See the following page.

## UPDATING FORM

### INSTRUCTIONS:

Please fill out one of these forms and mail it to the ECC Director anytime there are any of the following changes:

1. Change in your organization that affects notification procedures.
2. A need to correct the Contingency plan content.
3. An upgrade in your communication system or procedures.

Organization \_\_\_\_\_

Address \_\_\_\_\_

Name of Previous Contact \_\_\_\_\_ Phone \_\_\_\_\_

Name of New Contact \_\_\_\_\_ Phone \_\_\_\_\_

Page Where Changes Were Made \_\_\_\_\_

Comments or Amendments:

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Name and Date of Party Making Correction:

Name	Title	Date
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Mail To: Gifford Pinchot National Forest  
10600 N.E. 51<sup>st</sup> Circle,  
Vancouver, WA 98682  
Attn: Fire Management

## ***IX. GLOSSARY***

**Accretionary lapilli.** More or less spherical masses of loosely aggregated ash, mostly between 1mm and 1cm in diameter.

**Andesite.** A volcanic rock consisting of 53-63 percent silica; has a moderate viscosity when in a molten state.

**Ash.** Fragments of lava or rock less than 2mm in diameter that are blasted into the atmosphere by volcanic explosions.

**Basalt.** A volcanic rock consisting of less than 53 percent silica; has a low viscosity when in a molten state.

**Caldera.** A large volcanic depression, usually circular in map view.

**Composite volcano.** A steep-sided volcano composed of layers of volcanic rock, usually of high-viscosity lava, and unconsolidated material such as debris-flow and pyroclastic deposits.

**Dacite.** A volcanic rock composed of 63-68 percent silica; has a high viscosity when in a molten state.

**CVO.** Cascades Volcano Observatory, Vancouver, WA 98661

**Debris flow.** A flowing mixture of water and rock debris. Volcanic debris flows are sometimes referred to as volcanic mudflows or lahars (an Indonesian word).

**Dome.** A steep-sided mound that forms when highly viscous lava piles up near a volcanic vent. Domes are formed by andesite, dacite, and rhyolite lavas.

**Earthquake.** A sudden motion or trembling in the earth caused by the abrupt release of accumulated strain in rocks.

**Lava flow.** Molten rock that erupts from a vent or fissure and flows downhill.

**Magma.** Molten rock, which contains dissolved gas and crystals, formed deep within the Earth. When magma reaches the earth's surface, it is called lava.

**Phreatic eruption.** A steam explosion that occurs when water comes in contact with hot rocks or ash near a volcanic vent.

**Piedmont.** A flat or low-angle slope, area, glacier, or other feature at the base of a mountain.

**Pumice.** A light-colored volcanic rock containing abundant trapped gas bubbles formed by the explosive eruption of magma. Because of its numerous vesicles, or bubbles, pumice commonly floats on water.

**Pyroclastic flow.** A hot, fast-moving, and high-density mixture of ash, pumice, rock fragments, and gas that flows downhill during explosive eruptions.

**Seismicity.** The phenomenon of earthquakes or earth vibrations.

**Silica.** A molecule formed of silicon and oxygen ( $\text{SiO}_2$ ) that is the basic building block of volcanic rocks and the most important factor controlling the viscosity of magma. The higher a magma's silica content, the greater its viscosity.

**Silicosis.** Fibrosis of the lungs caused by long-term inhalation of silica dust and resulting in a chronic shortness of breath.

**Tephra.** A general term for airborne rock fragments ejected during explosive eruptions. Tephra consisting of fragments less than 2 mm in diameter is called ash.

**Tremor.** In relation to volcanoes, a type of seismicity characterized by continuous vibration of the ground. The vibration is related to the transport of fluids and gas within or beneath a volcano.

**Volcanic landslide.** The down slope movement of soil, rock debris, and sometimes-glacial ice, with or without water, from the flank of a volcano.

**Volcano.** A vent on the surface of the earth through which magma erupts, and also the landform that is produced by the erupted material.

**MOUNT ST. HELENS**

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**PURPOSE:** To establish procedures for the Duty Officer to respond to volcanic events/incidents at Mount St. Helens.

**GENERAL INFORMATION:**

1. Warning information may come from the USGS, USFS or the University of Washington. The USGS, after analyzing the appropriate data, will issue information under three alert level response categories (Information Statement, Extended Outlook Advisory, Volcano Advisory, and Volcano Alert). The level of activity and category dictate the actions of the Duty Officer. The USFS, by agreement with FEMA, USGS, and the National Weather Service (NWS), continue to be responsible for warning of all volcanic events.

2. **RESPONSE CATEGORIES**

The USGS, USFS, Emergency Management, FEMA, and others have agreed to utilize the following operational strategy that has, as its basis, four levels of response to volcano alert levels. They are: Monitoring, Information Statement (Alert level one), Extended Outlook Advisory (Alert Level Two), Volcano Advisory (Alert Level Three), and Volcano Alert (Alert Level Four).

**NOTE: Call may come in at any alert level. ONLY the first call will be verified!**

**DUTY OFFICER PROCEDURES:**

A. **MONITORING:** No action required.

B. **INFORMATION STATEMENTS:**

Mount St. Helens has a history of non-emergency but very spectacular events including minor ash falls, which arouse a great deal of media or public attention. Should such events occur, the USGS and USFS ECC in Vancouver, WA will attempt to verify the nature and extent of the event and then contact the Duty Officer, 1-800-258-5990 and issue the Information Statement.

After receiving the Information Statement, the Duty Officer will:

**NOTE: CALL TO USGS OR USFS WILL BE VERIFIED ONLY ONE TIME.**

1. Make conference call with USGS and USFS to verify call, determine activity and to whom information is disseminated.
2. Annotate information on EM Form 105 and assign incident number.
3. Notify the Emergency Operations Supervisor, Operations Unit Manager, the Chief-of-Staff or the Assistant Director to discuss notification of EM PIO, Director and the Governor's office.
4. Make notifications using NAWAS and ACCESS to all counties, Yakima State Patrol, and neighboring states of Montana, Idaho and Oregon. Use NAWAS handbook Tab 5, Attachment 9.
5. Notify the Washington State Patrol Liaison and Weyerhaeuser security patrol using Annex 1 of Mount St. Helens plan or attachment 5 of this SOP.
6. If ash fall is involved, the National Weather Service may issue a transport winds forecast which will go out automatically to all concerned via ACCESS.

**C. EXTENDED OUTLOOK ADVISORY (ALERT LEVEL ONE) :**

This category is used when USGS monitoring and evaluation can first confirm changes that may lead to eruption activity. The USFS, USGS, and EM will not release information to the media until the Volcano Center has consulted and advised key cooperating agencies.

1. If call has already been verified at any other level, continue. **IF NOT**, make conference call with USGS and USFS to verify call, determine activity and to whom information is disseminated.
2. Annotate information on EM 105 and assign an incident number.
3. Make notifications using NAWAS and ACCESS to all counties, Yakima State Patrol, and neighboring states of Montana, Idaho and Oregon. Use NAWAS handbook Tab 5, Attachment 9.
4. Notify the Washington State Patrol Liaison and Weyerhaeuser security patrol using Annex 1 of Mount St. Helens plan or attachment 5 of this SOP.
5. Notify the Emergency Operations Supervisor, Operations Unit Manager, Chief of Staff or the assistant Director to discuss notification of EM PIO, Director, and Governor's Office.

**D. VOLCANO ADVISORY (ALERT LEVEL TWO):**

This category is used when USGS monitoring and evaluation indicate that processed are underway that could culminate in eruptive activity or abnormal

hydrologic activity but when the evidence does not indicate that a life- or property-threatening event is imminent. This category is used to emphasize heightened potential hazard.

1. If call has already been verified at any other level, continue. **IF NOT**, make conference call with USGS and USFS to verify call, determine activity and to whom information is disseminated.
2. Annotate information on EM 105 and assign an incident number.
3. Make notifications using NAWAS and ACCESS to all counties, Yakima State Patrol, and neighboring states of Montana, Idaho and Oregon. Use NAWAS handbook Tab 5, Attachment 9.
4. Make telephonic notifications using Annex 1 and 2 of the Mount St. Helens plan, or attachments 4 and 5 of this SOP.
5. If event involves release of ash or imminent release of ash request the National Weather Service, Portland (NAWAS) or (503) 326-3720 to send transport winds forecast, to be transmitted on the NOAA weather wire (ACCESS) as soon as possible.
6. Notify the Emergency Operations Supervisor, Operations Unit Manager, Chief of Staff or the Assistant Director to discuss notifications to:
  - a. EM PIO
  - b. Governor's Office and Director
  - c. Other EM staff for EOC activation or standby status as appropriate
  - d. Possible EBS or EAS activation
  - e. Possible EOC activation
7. Notify the following state agencies:

<input type="checkbox"/> Natural Resources	24 hrs-a-day
<input type="checkbox"/> Military	24 hrs-a-day
<input type="checkbox"/> Labor & Industries	0800-1700 weekdays
<input type="checkbox"/> Licensing	24 hrs-a-day
<input type="checkbox"/> DOT Aviation	24 hrs-a-day
<input type="checkbox"/> DOT	24 hrs-a-day
<input type="checkbox"/> WSP	24 hrs-a-day
<input type="checkbox"/> Ecology	24 hrs-a-day
<input type="checkbox"/> Department of Health	24 hrs-a-day
<input type="checkbox"/> Agriculture	0800-1700 weekdays
<input type="checkbox"/> Employment Security	24 hrs-a-day
<input type="checkbox"/> Indian Affairs	24 hrs-a-day
<input type="checkbox"/> Parks and Recreation	24 hrs-a-day



E. VOLCANO ALERT (ALERT LEVEL THREE):

This level is used when USGS monitoring and evaluation indicate that precursory events have escalated to the point where a volcanic or hydrologic event threatening to life and property appears imminent or is underway.

1. If call has already been verified at any other level, continue. **IF NOT**, make conference call with USGS and USFS to verify call, determine activity and to whom information is disseminated.
2. Annotate information on EM 105 and assign an incident number.
3. Make notifications using NAWAS and ACCESS to all counties, Yakima State Patrol, and neighboring states of Montana, Idaho and Oregon. Use NAWAS handbook Tab 5, Attachment 9.
4. Make telephonic notifications using Annex 1 and 2 of the Mount St. Helens plan, or attachments 4 and 5 of this SOP.
5. If event involves the release of ash request the National Weather Service, Portland (NAWAS) or (503) 326-3720 to send transport winds forecast, to be transmitted on the NOAA weather wire to (ACCESS) as soon as possible.
6. Notify the Emergency Operations Supervisor, Operations Unit Manager, Chief of Staff or the Assistant Director to discuss notifications to:
  - a. EM PIO
  - b. Governor's Office and Director
  - c. Other EM staff for EOC activation or standby status as appropriate
  - d. Possible EBS or EAS activation
  - e. Possible EOC activation (see SOP G-7 if required)
7. Notify the following state agencies:

___ Natural Resources	24 hrs-a-day
___ Military	24 hrs-a-day
___ Labor & Industries	0800-1700 weekdays
___ Licensing	24 hrs-a-day
___ DOT Aviation	24 hrs-a-day
___ DOT	24 hrs-a-day
___ WSP	24 hrs-a-day
___ Ecology	24 hrs-a-day
___ Department of Health	24 hrs-a-day
___ Agriculture	0800-1700 weekdays
___ Employment Security	24 hrs-a-day
___ Indian Affairs	24 hrs-a-day

Attachments

- 1 Mt. St. Helens USGS, USFS, UW Telephone List
- 2 Mt. St. Helens Volcano Center Actions
- 3 Call Down List - USFS ECC
- 4 Mt. St. Helens Appendix 1
- 5 Mt. St. Helens Annex 1
- 6 Mt. St. Helens Annex 2

## Mount St. Helens USGS-USFS-UW Telephone List

### U.S. FOREST SERVICE Emergency Coordination Center\*

Monday-Friday 0800-1630 (360) 891-5140  
After Hours and Weekends (Answering Service) (360) 896-FIRE (3473)

	<u>Office</u>	<u>Home</u>
Primary - Mike Matarrese	(360) 891-5146	(360) 666-5805
Bob Ensley	(360) 891-5141	(360) 835-7004
Fax	(360) 891-5145	

\*U.S. FOREST SERVICE GENERAL OFFICES, VANCOUVER (360) 891-5000

### U.S. GEOLOGICAL SURVEY

Monday-Friday 0800-1630 (360) 696-7693 (General Office #)

	<u>Office</u>	<u>Home</u>
Scientist in Charge	(360) 696-7693	

Scientist in Charge or his/her designee has a beeper. This beeper is capable of displaying a call-back number. Call the beeper number and after it answers, punch in your telephone number (1-800-258-5990), press the # and hang up. The beeped person should call back shortly. **NOTE: ONLY WORKS WITH PUSH BUTTON PHONES.**

	<u>Beeper Number</u>
Primary - Scientist in Charge	(360) 699-7933
Fax	(360) 696-7866

### UNIVERSITY OF WASHINGTON GEOPHYSICS PROGRAM

**Hotline** (not for public release) (206) 685-2068  
(preprogrammed on duty officer telephone)

EOS Line (206) 685-2068

Warmline (for press/media/local EM's) (206) 685-2255

# MOUNT ST. HELENS VOLCANO CENTER ALERT DEFINITIONS, LEVELS OF ACTIVITY, AND RESPONSE ACTIONS

## A. MONITORING

During normal day-to-day operations the USGS will issue a monthly summary which presents general volcano information of a non-emergency nature and is transmitted through the mail or via computer to all cooperating agencies. It requires no action by EM except acquisition of the information and use on a daily and monthly basis.

## B. INFORMATION STATEMENT:

Unusual events such as steam bursts (with or without minor ash fall), small avalanches, rock falls, minor mud flows, thunderstorms, and slash burning often attract media and public interest and inquiry. These events do not fit into any other information category, since they pose no significant threat or are short-lived. The Volcano Center EOC along with the USGS will attempt to verify what has occurred and then initiate phone calls to the key cooperators of:

- Cowlitz County
- Skamania County
- Lewis County
- Clark County
- Washington State EM
- MSHNVM Manager
- Randle District Ranger
- Federal Aviation Administration (FAA)
- National Weather Service (Seattle and Portland)
- Portland Water Bureau
- Coldwater-Johnston Project/Slayden Construction
- Weyerhaeuser

This action is necessary so that cooperating agencies and Ranger Districts can furnish the appropriate response to inquiries from the news media and the public.

## C. ALERT LEVEL ONE - EXTENDED OUTLOOK ADVISORY:

This category is used when USGS monitoring and evaluation can first confirm changes that may lead to eruption activity. This information will be conveyed to the Volcano Center for the appropriate emergency responses outlined below. The USFS, USGS, and EM will not release information to the media until the Volcano Center has consulted and advised key cooperating agencies.

**ACTIONS:** Volcano Center EOC advises key cooperators via telephone and/or telecopier. Read and discuss the message. Key cooperators are:

- Cowlitz County EM
- Skamania County EM
- Lewis CountyEM
- Clark CountyEM
- Washington State EM
- MSHNVM Manager
- Randle District Ranger
- Oregon EM
- Corps of Engineers
- Washington State Patrol (Vancouver Office)
- Federal Aviation Administration (FAA)
- National Weather Service (Seattle and Portland)
- Portland Water Bureau
- Coldwater-Johnston Project/Slayden Construction
- Weyerhaeuser
- Volcanic Center ECC prepares to close Mount St. Helens hazard areas as dictated by the nature of the eruptive activity and the perceived risks at this point in time.

#### **D. ALERT LEVEL TWO - VOLCANO ADVISORY:**

This category is used when USGS monitoring and evaluation indicate that processes are underway that could culminate in eruptive activity or abnormal hydrologic activity but when the evidence does not indicate that a life- or property-threatening event is imminent. This category is used to emphasize heightened potential hazard.

**ACTIONS:** Volcano Center EOC will do the following:

- Initiate NAWAS warning procedures.
- Request "transport winds forecast" from NWS Portland.
- Consider or effect, in coordination with EM, a closure and evacuation of the hazard areas.

#### **E. ALERT LEVEL THREE - VOLCANO ALERT:**

This level is used when USGS monitoring and evaluation indicate that precursory events have escalated to the point where a volcanic or hydrologic event threatening to life and property appears imminent or is underway.

**ACTIONS:** Volcano Center EOC will do the following:

- Initiate NAWAS warning procedures
- Close and evacuate the hazard areas
- Consider expanding, in coordination with EM, the closure area.
- Alert FAA to anticipated ash hazards to aircraft. Consult with FAA regarding airspace closure area.
- Request radar monitoring from Portland NWS for ash cloud detection.

- Request and maintain the transport winds forecast from NWS Portland.

#### **F. CLOSURE ORDERS**

When volcanic activities indicate an increasing/increased hazard to public users as a result of eruptive events, the Hazard Areas shall be closed by the responsible EOC Officer in accordance with instructions.

It will be necessary in the closure process to complete the following operational actions:

- Notify the Washington State Duty Officer that a closure is being implemented and telefax the order to EM.

24-hour telephone	1-800-258-5990
Telefax (Auto-24 hr)	(360) 438-7395

- Notify MSHNVM Manager via telephone and telefax the order to him/her.
- Advise County Sheriffs (Skamania, Clark, Cowlitz, and Lewis), of the closure order.
- At the end of the emergency, rescind the order, repeating the above process.

# VOLCANO GENERAL ACTIVITY NOTIFICATION

## VOLCANO CENTER ECC CALL DOWN DIRECTORY

AGENCY	DAY	NIGHT
<b>MT. ST. HELENS NATIONAL VOLCANIC MONUMENT</b>	(360) 449-7800	
CLIFF LIGONS	(360) 449-7810	
<b>FAA - FEDERAL AVIATION ADMINISTRATION (SEATTLE)</b>	(206) 351-3520 Primary	
Watch Supervisor (24-Hr)	(206) 833-6814 Back-up	
<b>SKAMANIA COUNTY</b>		
Emergency Management	(509) 427-8076	
Emergency (24 hour)	(509) 427-9490	
<b>COWLITZ COUNTY</b>		
Emergency Management	(360) 577-3130	
Emergency (24 hour)	(360) 577-3098	
<b>LEWIS COUNTY (SHERIFF)</b>		
Emergency Management	(360) 740-1151	
Emergency (24 hour)	(360) 740-1105	
<b>CLARK COUNTY (SHERIFF)</b>		
Emergency Management	(360) 737-1911 ex 3951 or 3941	
Emergency (24 hour)	(360) 696-4461	
<b>PORTLAND WEATHER</b>		
Lead Forecaster/Emergency	(503) 326-3270 24hr	
Hydrologist/Floods	(503) 326-2356 24hr	
Fax	(503) 326-2598	
<b>WEYERHAEUSER COMPANY</b>		
Mt. St. Helens - 24 hr patrol	(360) 636-6595 (360) 636-6504	
Normal Business	(360) 425-2150	
Ross Graham 0730-1700	(360) 636-7133	(360) 673-5356
<b>NORTHWEST COODINATION CENTER (PORTLAND)</b>		
Fire Phone (24 HR)	(503) 808-2720	
Fax	(503) 808-2750	
<b>BIA - YAKIMA AGENCY</b>		
Office Hours (0800-2100)	(509) 865-6653	
Fax	(509) 865-6537	
Max Corpus	(509) 865-6653 ex.4212	(509) 877-2644
Ted Stevens	(509) 865-6653 ex. 4215	(509) 452-9283

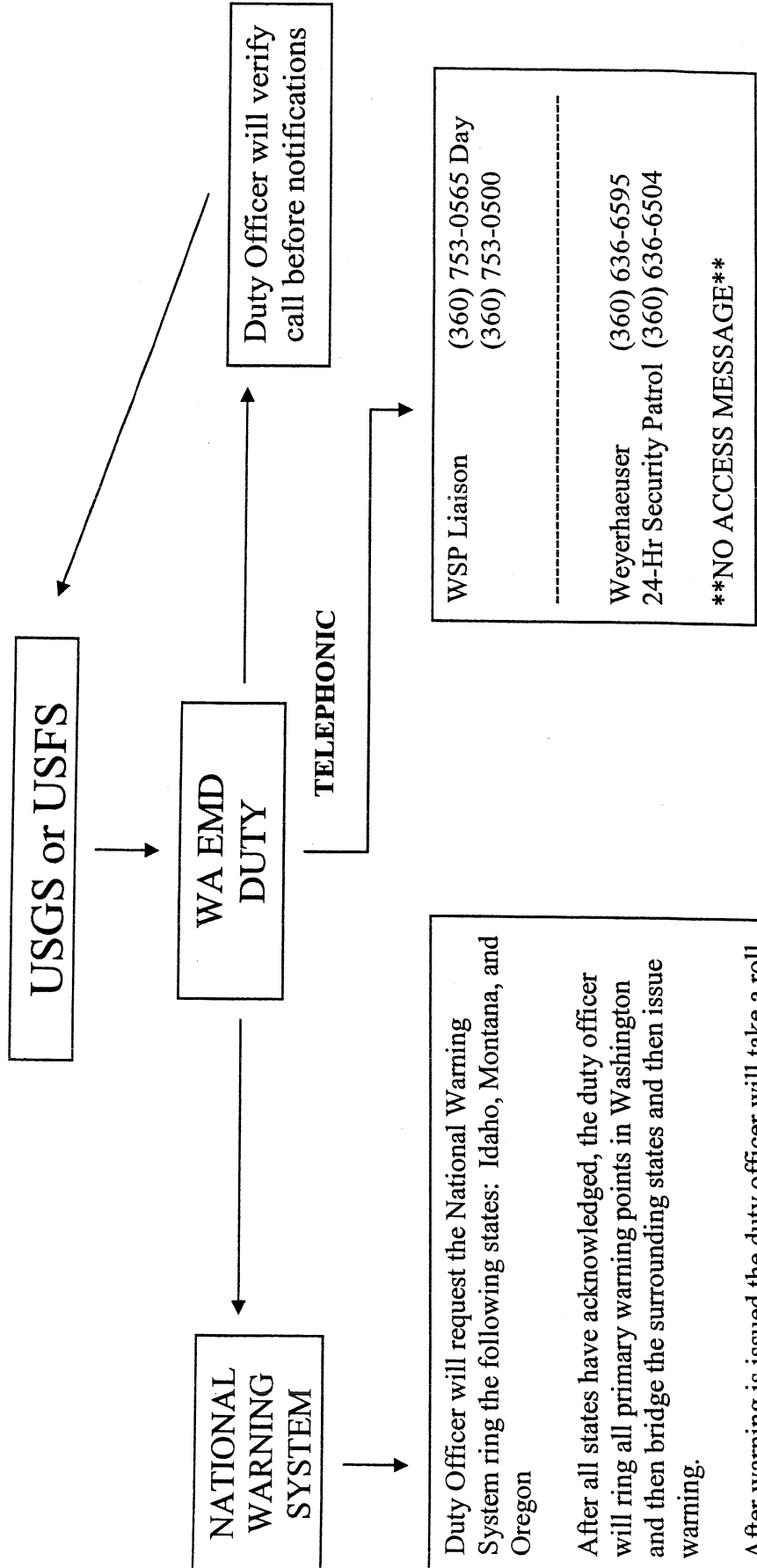
AGENCY	DAY	NIGHT
<b>PACIFIC POWER &amp; LIGHT</b> 24-Hr  Fax	(503) 251-5230  (503) 251-5228	
<b>PORTLAND GENERAL ELECTRIC</b> 24-HR Dispatcher Fax	(503) 464-8343 (503) 464-8134	
<b>PORTLAND WATER BUREAU</b> Control Center	(503) 823-1560 or (503) 823-1561	
<b>U.S. ARMY CORPS OF ENGINEERS (PORTLAND)</b> Emergency Management Fax	(503) 326-6099 (503) 326-6993	
<b>DEPARTMENT OF WILDLIFE</b> (Toutle River Fish Hatchery) Facility Paul Peterson Cody Warner	(360) 274-7757 (360) 983-3486	(360) 274-0329
<b>DEPARTMENT OF TRANSPORTATION SW REGION</b> Steve Cantor Ken Kirkland Ted Plaselk	(360) 902-2130 (360) 902-2020 (360) 902-2240	(360) 263-3938 (360) 573-6200 (360) 571-0521
<b>WASHINGTON STATE PATROL</b> 24-Hr Phone	(360) 696-6161 ex 0	
<b>DEPARTMENT OF NATURAL RESOURCES - SW REGION</b>	(360) 577-2025 If no answer, call 1-800-562-6010	
<b>PLUM CREEK TIMBER COMPANY</b> Roger Wimer Hoyt Laney	(360) 636-2650 (360) 636-2650	(360) 636-1076 (503) 556-9182
<b>U.S. COAST GUARD (PORTLAND)</b> 24-Hr Phone  Fax	(503) 240-9300 or (503) 240-9301 (503) 240-9302	
<b>FEMA REGION X</b> John Pennington (Director) Mike Howard (PAO) Region X, Bothell Fax (Regional Director) Fax (Comm. Center)	(425) 487-4604 (425) 487-4610 (425) 487-4600 (425) 487-4622 (425) 487-4707	



<b>NORTHWEST PIPELINE COMPANY</b> Battleground Office Ruth Mabrey (District Manager) Troy Roby (Asst. Manager) 24 HR Emergency	(360) 687-3156 (360) 666-2101 (360) 662-2119	1-800-972-7733
<b>GTE NETWORK OPERATIONS</b>	(206) 261-7200 24-Hr	
<b>AGENCY</b>	<b>DAY</b>	<b>NIGHT</b>
<b>CASCADE NATURAL GAS</b> Dispatch/Customer Service	(800) 552-0615	
<b>WASHINGTON PUBLIC PORTS ASSOCIATION</b> Don White Sue Taylor Eric Johnson	(360) 943-0760 (360) 943-0760 (360) 943-0760	(360) 491-5895 (360) 491-5068 (360) 438-3464
<b>MCCHORD AFB COMMAND POST</b>	(206) 984-2635	

NAWAS, ACCESS, TELEPHONIC AND INFORMATION STATEMENTS

ALERT LEVELS  
1,2,3



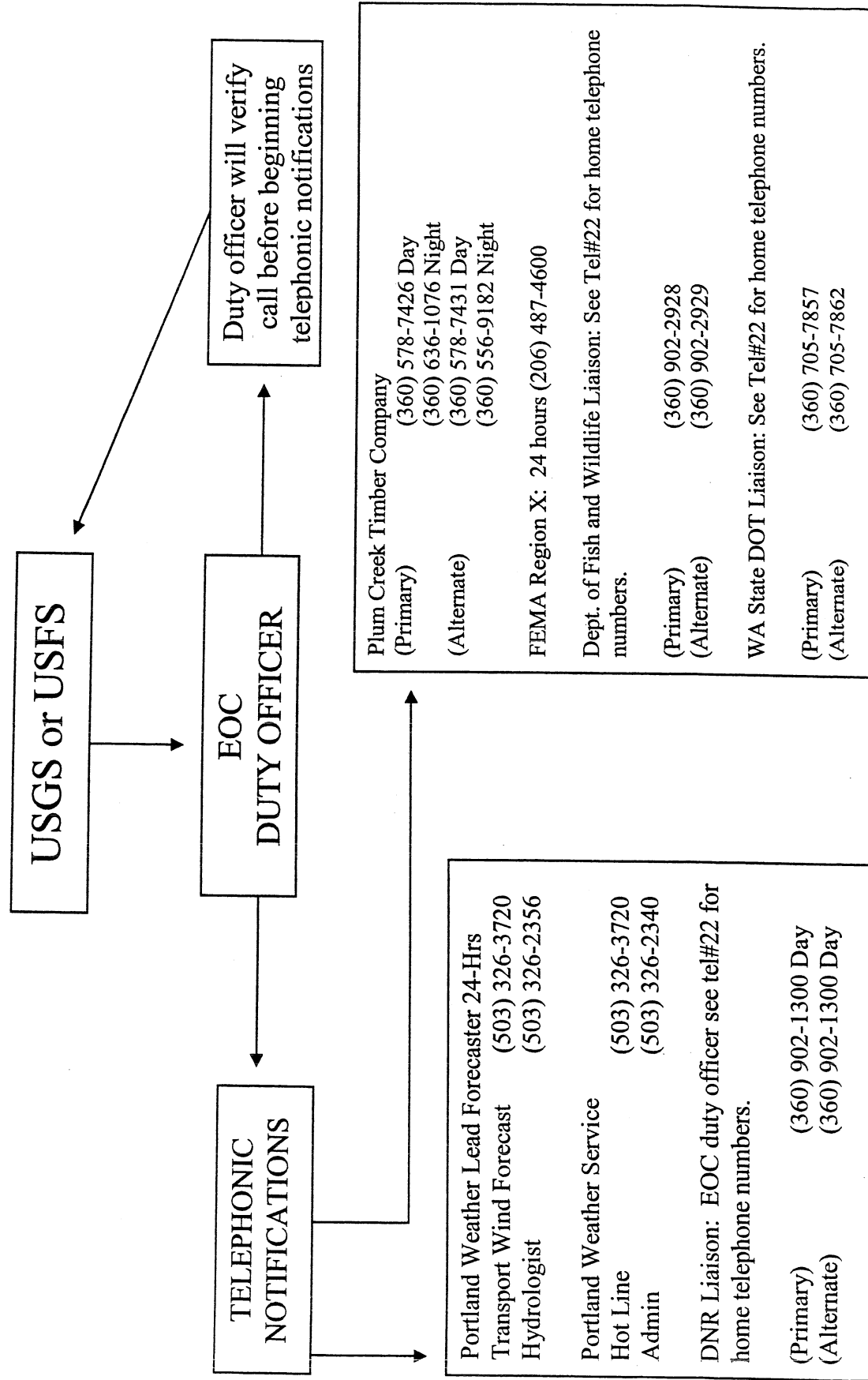
Duty Officer will request the National Warning System ring the following states: Idaho, Montana, and Oregon

After all states have acknowledged, the duty officer will ring all primary warning points in Washington and then bridge the surrounding states and then issue warning.

After warning is issued the duty officer will take a roll call. Those not answering will be contacted via telephone. ACCESS MESSAGE TO ALL ABOVE

# TELEPHONIC

## ALERT LEVELS 2 & 3



## ***APPENDIX I***

### **CALL-DOWN PHONE LIST**

Monument Manager	Cliff Ligons	(360) 247-3910
Supervisory Law Enforcement Officer	Chris Lynch	(360) 891-5135
Cowlitz Valley Ranger District	Vacant (acting in place)	(360) 497-1100
Mount Adams Ranger District	Greg Cox	(360) 395-3400
Federal Aviation Administration (FAA) – Seattle		(253) 351-3520
National Weather Service (NWS) – Portland	Emergency Line Forecaster	(503) 326-2340
Portland Water Bureau	24-hour Emergency Number	(503) 823-1560
Army Corps of Engineers	24-hour Emergency Number	(503) 808-4400
Yakima Indian Nation	24-hour Emergency Number Tribal Police	(509) 865-6653
U.S. Coast Guard	24-hour Emergency Number Officer of the Day	(503) 204-9301
Northwest Coordination Center (NWC)	24-hour Emergency Number	(503) 808-2720

